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(87) 国際公開番号	W O 9 5 / 0 5 4 6 1	(74) 代理人	弁理士 小田島 平吉 (外1名)
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(54) 【発明の名称】 微生物DNAのインサイチュー抽出法

(57) 【要約】

DNAを制限エンドヌクレアーゼで消化することを含んで成る、DNAをさらなる*in situ*の酵素的修飾を受けやすくする微生物DNAの抽出法。本方法は、a) 低張EDTA溶液の存在中で微生物細胞を加熱し、b) アクロモペプチダーゼを添加することにより細胞を溶解し、そしてc) 該溶解細胞を加熱し、残存するプロテアーゼおよびヌクレアーゼ活性を不活性化する、ことを含んで成る。

A page of dot grid paper. The page features a grid of dots. There are horizontal lines and vertical lines. At the bottom, there is a small table with 2 columns and 3 rows.

1	2
3	4
5	6

A dot grid paper template. The header section consists of two lines: a dashed line for a title and a solid line for a date. Below the header are 20 horizontal rows of dots for writing.

This image shows a full page of dot grid paper. It features a series of horizontal rows of small black dots, spaced evenly apart. There are two vertical lines running down the page, one on the left side and one on the right side, creating margins. The dots are arranged in a precise grid pattern across the entire page area.

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This image shows a full page of primary-ruled paper. It features multiple sets of horizontal lines designed to guide handwriting. Each set consists of a solid top line, a dashed midline, and a solid bottom line. The spaces between these lines are intended for letter formation practice. There are approximately 10 such sets of lines across the page, providing ample space for writing practice.

[illegible]

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アクロモペプチダーゼ活性の既知の阻害剤

試薬	10 ⁻³ Mでの相対ACP活性	10 ⁻⁴ Mでの相対ACP活性
	パーセント	パーセント
無し	100	100
Ca ⁺⁺	51	88
Mg ⁺⁺	54	91
Ba ⁺⁺	51	82
Mn ⁺⁺	33	91
Zn ⁺⁺	0	0
Cd ⁺⁺	5	15
Hg ⁺⁺	0	0
Fe ⁺⁺	5	56
Co ⁺⁺	16	41
Ni ⁺⁺	21	56
Pb ⁺⁺	16	62
Cu ⁺⁺	0	10
Ag ⁺⁺	34	48
Al ⁺⁺⁺	0	56
EDT	100	--
2-メルカプト	95	--
エタノール		
アジ化ナト	100	--
リウム		
SDS	53	--

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This image shows a full page of dot grid paper. It features a series of horizontal rows of small black dots. A single vertical line runs down the left side of the page, creating a narrow margin. The dots are arranged in a regular grid pattern across the entire page area.

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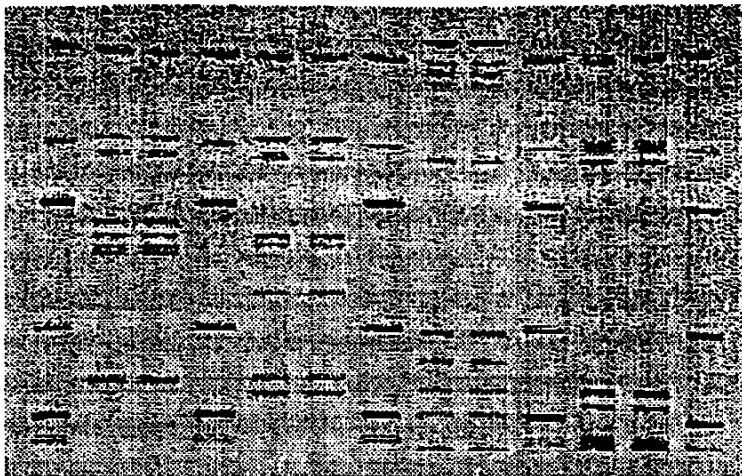
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レーン#	試料
1	像マーカー標準
2	リステリア イバノビ(<u>Listeria ivanovii</u>)
3	リステリア イバノビ(<u>Listeria ivanovii</u>)
4	像マーカー標準
5	リステリア モノサイトゲネス(<u>Listeria monocytogenes</u>)
6	リステリア モノサイトゲネス(<u>Listeria monocytogenes</u>)
7	像マーカー標準
8	スタフィロコッカス アウレウス(<u>Staphylococcus aureus</u>)
9	スタフィロコッカス アウレウス(<u>Staphylococcus aureus</u>)
10	像マーカー標準
11	エシリヒャ コリー (<u>Escherichia Coli</u>)
12	エシリヒャ コリー (<u>Escherichia Coli</u>)
13	像マーカー標準

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レーン # 1 2 3 4 5 6 7 8 9 10 11 12 13

FIGURE

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 94/08498

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C12N15/10 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US,A,4 830 969 (HOLMES D.) 16 May 1998 see column 2, line 54 - column 3, line 33 -----	1-5
A	EP,A,0 552 571 (BECTON DICKINSON AND COMPANY) 28 July 1993 see claims; tables I,II -----	1-5, 10, 11
A	EP,A,0 547 789 (BECTON DICKINSON AND COMPANY) 23 June 1993 see page 11, line 39 -----	6

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"Z" document member of the same patent family

Date of the actual completion of the international search

8 November 1994

Date of mailing of the international search report

02 -12- 1994

Name and mailing address of the ISA

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Authorized officer

Van der Schaal, C

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 94/08498

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US-A-4830969	16-05-89	NONE	
EP-A-0552571	28-07-93	AU-A- 3111393 CA-A- 2086729	15-07-93 10-07-93
EP-A-0547789	23-06-93	AU-A- 2844892 CA-A- 2084533	24-06-93 19-06-93

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